

NON-CONTACT ELECTROACTIVE POLYMER ELECTRODES

ABSTRACT OF THE DISCLOSURE

The invention relates to systems and methods for electrically communicating with an
5 electroactive polymer using one or more electrodes that do not contact the polymer. A non-
contact electrode communicates charge to or from a portion of the polymer, typically through
a medium. For example, the medium may include air, a vacuum, or a specialized gas that
facilitates transfer of charge between the electrode and the polymer. The charge may include
positive or negative ions or electrodes and may act to actuate the polymer, or diminish
actuation applied to polymer in one or more specific polymer portions.

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